INFANTID
Overview

What is InfantID?

InfantID is the cornerstone of Integrated Biometrics' InfantIB family of biometric solutions for early childhood identification. Designed to establish a child's legal identity from birth, the capture of prints using the InfantID solution is the first step for establishing traceability from day one of a child's life. InfantID utilizes groundbreaking technology to capture even the tiniest fingerprints with unmatched clarity and accuracy. Integrated Biometrics' mission, revolutionizing identity management for the world's youngest citizens, is at the core of InfantIB, ensuring secure, reliable enrollment and verification for children—and the promise of traceability to Immutable Evidence of Origin (IEO).

Challenges of Early Identification

Break Down Barriers to Reliable Infant Identity Capture
Capturing accurate biometric data from infants has historically been challenging due to physiological factors such as small finger size, thin skin, indistinct ridge patterns, presence of vernix, skin elasticity, and rapid growth. These challenges have hindered the development of scalable and reliable identification technologies for newborns.

The following innovations address key challenges in capturing infant biometric data, improving accuracy, reliability, and long-term usability of fingerprint identification:

- Ergonomics that make it easier to capture prints from an infant's hand
- An SDK with proprietary algorithms that use AI to produce an image
  that is matchable for the future
  - Remapping (Image adjustment with zero distortion)
  - ROI (Region of interest in the image)
  - Quality (Image quality analysis)
  - Image Segmentation (Accurately isolate individual fingerprints
  - Normalization (Image adjustment to 500ppi)

Life-Long Traceability
Capturing an infant's fingerprints at birth is the first step in establishing a lifelong, secure identity. As the child grows, these initial biometric records can be compared to subsequent captures, ensuring consistent and reliable identification over time. This process bridges existing gaps in long-term identification, providing Immutable Evidence of Origin (IEO) and safeguarding the child's access to essential services and rights throughout their life.

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The following key aspects highlight the importance and advancements in lifelong biometric traceability, ensuring secure and verifiable identification from infancy through early childhood:

- When the child's print is large enough to be captured by a traditional, Appendix F-certified sensor, the mother's prints can also be captured
- Using a revolutionary SDK, the two prints can be compared to confirm the child's identity, bridging the critical gap in long-term identification that exists today
- Wand image to wand image—day 0 to day 900—natural, verifiable image, either 1-to-1 or in a database
- Future research and development goals include Day 0 InfantID Wand identification to day 500+ vwith IB LES technology

Stay Ahead with InfantID

Biometric identification is rapidly transforming childhood identification, with InfantID at the forefront of this revolution. By adopting InfantID now, you ensure that the children under your care are not left behind as this technology becomes the standard.

InfantID represents a breakthrough in biometric identification and offers significant advantages in both technological advancements and access to essential services:

- **Emerging Technology** - Biometric solutions for infants are advancing swiftly and will soon be fully operational. To capitalize on these developments, it's crucial to start capturing clear infant fingerprint images today.
- **Access to Essential Services** - Implementing InfantID ensures every child can access healthcare, social services, and security, safeguarding their rights and well-being.

Scalability and Interoperability
Working seamlessly with an existing system means going live faster.

- **Matcher/system-agnostic** - The image produced by InfantID can be integrated into any biometrics solution.
- **Interoperability** - Conversion of high-quality images at 500ppi, ensuring full interoperability with ABIS and AFIS systems available on the market, ensures the integrity and legibility of biometric information.

Shaping the Future of Infant Identity
InfantID represents a transformative leap in biometric identification for newborns, setting a new standard for early childhood identity management. By overcoming historical challenges in infant fingerprint capture, InfantID ensures that every child's identity is securely established from birth, providing a foundation for lifelong traceability. Its unmatched clarity, advanced AI-driven processing, and seamless interoperability with existing biometric systems make it the most scalable and future-proof solution available. As biometric identification becomes the global standard for child protection, healthcare, and social services, adopting InfantID today ensures that no child is left behind. With InfantID, organizations take a leadership role in safeguarding the identities and futures of the world's youngest citizens.